**Properties of Exponents**

Let a and b be real numbers and let m and n be integers.

**Product of Powers Property **

**Power of a Power Property **

**Power of a Product Property **

**Negative Exponent Property **

**Zero Exponent Property **

**Quotient of Powers Property **

**Power of a Quotient Property **

1. Simplify by writing as a single power.

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1. Simplify by writing as a single power.

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1. Simplify each expression using exponent laws.

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1. Simplify each expression using exponent laws.

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1. **Multiplying Monomials**: Simplify each expression using exponent laws.

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1. **Dividing Monomials**: Simplify each expression using exponent laws.

* Fractions must be in lowest terms – no decimals!

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**1.** Answers

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1. Answers

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| **a)** | **b)** | **c)** | **d)** | **e)** | **f)** | **g)** |
| **h)** | **i)** | **j)** | **k)** | **l)** | **m)** | **n)** |
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1. Answers

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| **a)** | **b)** | **c)** | **d)** | **e)** | **f)** | **g)** |
| **h)** | **i)** | **j)** | **k)** | **l)** | **m)** | **n)** |
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1. Answers

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| **a)** | **b)** | **c)** | **d)** | **e)** | **f)** |

1. Answers

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| **a)** | **b)** | **c)** | | **d)** | | **e)** | | | **f)** | **g)** |
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1. Answers

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| **a)** | **b)** | **c)** | | **d)** | | **e)** | | **f)** | | **g)** |
| **h)** | **i)** | | **j)** | | **k)** | | **l)** | |  |  |